



Perfect mix of design freedom
and high energy efficiency

Fortimo LED Strip system

PHILIPS
sense and simplicity

Features and benefits

- High level of design flexibility through small continuous pitch of LEDs, narrow design with notches available in 102 mm and 280 mm
- High quality of white light
- High energy efficiency
- Flexible and smart system through Xitanium drivers
- Future proof
- Lifetime of 50.000 hrs and part of the Philips warranty scheme



Applications

Fortimo LED Strip systems are ideal for use in designer or miniaturised, slim luminaires for architectural applications, which were not previously possible with fluorescent lighting. The systems are ideal for use in luminaires for direct lighting in Offices, banks, schools, public buildings, supermarkets and anywhere where fluorescent lighting is currently the dominant choice.

Isolated and non-isolated choices

The Fortimo LED Strip family offers a choice of isolated (low voltage) or non-isolated (high voltage) systems. With non-isolated LED Strip systems a Class I luminaire must be made, whereby there is no possibility of accidentally touching the live parts in the system. A non-isolated system has the advantage of being more efficient, cheaper and the driver has shorter dimensions. An isolated system affords the opportunity to make open-louvred Class II luminaires.

Xitanium linear driver portfolio for Fortimo LED Strip family

The linear driver portfolio developed for the Fortimo LED Strip family consists of state of the art, advanced Xitanium drivers, offering the flexibility to set your own specification of LED system. The adjustable output current can be either programmed or set with a resistor. High energy efficiency, up to 92%, is a characteristic of the Xitanium driver family, as well as its ability to cope with multiple LED efficacy module upgrades. For the Fortimo LED Strip family there will be a linear range of Xitanium drivers available, all capable of driving different multiples of LED Strips modules, up to 12 for the low voltage systems and from 4 up to 10 module for the high voltage systems. For ultimate flexibility and choice these driver types will be available in fixed output, 1-10 V and Touch & DALI versions. Non isolated drivers will have the same linear dimensions as typical mainstream T5 drivers. Isolated versions will have a slightly larger dimension.

All drivers are compatible with all Philips DALI controls, such as ActiLume and OccuSwitch DALI.



Parasitic Current Protector

In LED Lighting a very small current can already ignite the LEDs. The parasitic output current in standby mode of the driver might already cause glowing LEDs. Philips has developed and patented the Parasitic Current Protector assuring the LEDs do not glow in standby mode. This device is applicable with the non-isolated Touch&Dali drivers and requires the LLM solar cable.



Product specification LV

Fortimo LED Strip LV systems	Light output	Module efficacy	Power consumption	Colour rendering index	Colour consistency	B50L70 @ Tc 55°C	LED Strip voltage Vf	Order code	12NC code
	lm	lm/W	W	Ra	SDCM	K hrs	DC	EOC	
Fortimo LED Strip 1ft 650lm 830 LV2	610	126	4.9	80	3.5	50	32.5	87182912 30397 00	9290 008 19603
Fortimo LED Strip 1ft 650lm 840 LV2	650	132	4.9	80	3.5	50	32.5	87182912 30410 00	9290 008 19703
Fortimo LED Strip 1ft 650lm 865 LV2	660	135	4.9	80	5.0	50	32.5	87182912 30434 00	9290 008 30703
Fortimo LED Strip 102mm 375lm 830 LV1	340	110	3.1	80	3.5	50	34.2	87182912 30359 00	9290 008 16203
Fortimo LED Strip 102mm 375lm 840 LV1	370	116	3.1	80	3.5	50	34.2	87182912 30373 00	9290 008 16303

Drivers 1st recommendation LV (isolated)

Dimming protocol	Power level	Dimensions	Driver	LED Strip 102 mm 375 lm LV1 # modules	LED Strip 1 ft 650 lm LV2 # modules	Order code	12NC code
		mm				EOC	
Dali	75 W iso	425 x 30 x 25	Xitanium 75W/0.7-2.0A 54V TE/TD 230V	9-20	5-12	87182912 11884 00	9290 006 92103
	36 W iso	425 x 30 x 25	Xitanium 36W/0.3-0.7A 54V TE/TD 230V	4-10	3-6	Q4 2012	Q4 2012
1-10 V	75 W iso	425 x 30 x 25	Xitanium 75W/0.7-2A 54V TE/1-10V 230V	9-20	5-12	87182912 11860 00	9290 006 92203
	36 W iso	425 x 30 x 25	Xitanium 36W/0.3-0.7A 54V TE/1-10V 230V	4-10	3-6	Q4 2012	Q4 2012
Fixed output	55 W iso	360 x 30 x 25	Xitanium 55W 0.84-1.5A 42V 120-277V	10-17	6-10	87182912 04398 00	9290 006 96103

Connection cable for LV

No cable provided with low voltage systems

Product specification HV

Fortimo LED Strip HV systems	Light output	Module efficacy	Power consumption	Colour rendering index	Colour consistency	B50L70 @ Tc 55°C	LED Strip voltage Vf	Order code	12NC code
	lm	lm/W	W	Ra	SDCM	K hrs	DC	EOC	
Fortimo LED Strip 280mm 630lm 830 1R HV	640	93	6.9	80	3.5	50	173	87182911 61738 00	9290 006 68803
Fortimo LED Strip 280mm 630lm 840 1R HV	610	88	6.9	80	3.5	50	173	87182911 50008 00	9290 006 37603
Fortimo LED Strip 280mm 630lm 865 1R HV	620	91	6.9	80	5.0	50	173	87182911 61783 00	9290 006 69003

Drivers 1st recommendation HV (non-isolated)

Dimming protocol	Power level	Dimensions	Driver	LED Strip 1 ft 630 lm 1R	Order code	12NC code
		mm			EOC	
Dali	75 W non-iso	360 x 30 x 22	Xitanium 75W 0.15-0.4A 200V TD 230V	10*	87182911 68188 00	9290 006 70403
	75 W non-iso	360 x 30 x 22	Xitanium 75W/360mA 200V TD 230V	9	87182911 52590 00	9290 006 62203
1-10 V	75 W non-iso	360 x 30 x 22	Xitanium 75W/320mA 200V TD 230V	8	87182911 52583 00	9290 006 62103
	75 W non-iso	360 x 30 x 22	Xitanium 75W/280mA 200V TD 230V	7	87182911 52576 00	9290 006 62003
Fixed output	75 W non-iso	360 x 30 x 22	Xitanium 75W/240mA 200V TD 230V	6	87182911 52569 00	9290 006 61903
Fixed output	75 W non-iso	360 x 30 x 22	Xitanium 75W/200mA 200V TD 230V	5	87182911 52552 00	9290 006 61803
Fixed output	75 W non-iso	360 x 30 x 22	Xitanium 75W/160mA 200V TD 230V	4	87182912 12287 00	9290 008 15903
Fixed output	75 W non-iso	360 x 30 x 22	Xitanium 75W/0.2-0.4A 200V 1-10V 230V	10*	87182911 63800 00	9290 006 38203
Fixed output	75 W non-iso	360 x 30 x 22	Xitanium 75W 0.15-0.4A 200V 230V	10*	87182915 47426 00	9290 006 38303

*The standard factory setting of this driver enables 10 Fortimo LED Strip.

Other number of modules can be set by programming in case of a Dali version and by adding a resistor in case of the 1-10V and fixed output version.

Connection cable for HV only	Order code EOC	12NC code
Fortimo LED strip cable 60cm	87182911 51456 00	9290 006 37703

Accessory (optional)

Parasitic Current Protector items	Order code EOC	12NC code
Parasitic Current Protector HV	87182912 23061 00	9290 008 14603
Fortimo Solar LLM Driver 4500	87279009 30320 00	9290 006 15003

For more information, please visit:
www.philips.com/oem



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